

CLAIMS:

1. A fluid filtration assembly for filtering a fluid in a vehicle transmission, the fluid filtration assembly comprising:

a return-side filter operable to filter a return fluid, the return-side filter including -  
a return-side inlet operable to receive the return fluid,  
a return-side outlet operable to release the return fluid, and  
a return-side filter media interposed between the return-side inlet and the return-side outlet and operable to filter the return fluid; and

a supply filter operable to filter a supply fluid, the supply filter including -  
a supply-side inlet operable to receive the supply fluid,  
a supply-side outlet operable to release the supply fluid, and  
a supply-side filter media interposed between the supply-side inlet and the supply-side outlet and operable to filter the supply fluid,

wherein the return-side filter and the supply-side filter share a common housing component.

2. The fluid filtration assembly as set forth in claim 1, wherein the return-side filter media is operable to filter relatively small particulates from the return fluid.

3. The fluid filtration assembly as set forth in claim 1, wherein the supply-side filter media is operable to filter only relatively large particulates from the supply fluid.

4. The fluid filtration assembly as set forth in claim 1, wherein the common housing component is a bottom.

5. The fluid filtration assembly as set forth in claim 1, wherein the common housing component is a top.

6. The fluid filtration assembly as set forth in claim 1, wherein the common housing component is a side wall.

7. A vehicle transmission comprising:

a fluid circulating therethrough;

a sump operable to receive the fluid via a sump inlet, provide a reservoir for the fluid, and release the fluid via a sump outlet;

5 a fluid filtration assembly located within the sump and operable to filter the fluid, the fluid filtration assembly including -

a return-side filter operable to filter a return fluid, the return-side filter including -

10 a return-side inlet coupled with the sump inlet and operable to receive the return fluid,

a return-side outlet operable to release the return fluid, and

15 a return-side filter media interposed between the return-side inlet and the return-side outlet and operable to filter the return fluid; and

a supply-side filter operable to filter a supply fluid, the supply-side filter including -

20 a supply-side inlet operable to receive the supply fluid, a supply-side outlet coupled with the sump outlet and operable to release the supply fluid, and

a supply-side filter media interposed between the supply-side inlet and the supply-side outlet and operable to filter the supply fluid,

25 wherein the return-side filter and the supply-side filter share a common housing component.

8. The vehicle transmission as set forth in claim 7, wherein the return-side filter media is operable to filter relatively small particulates from the return fluid.

30 9. The vehicle transmission as set forth in claim 7, wherein the supply-side filter media is operable to filter only relatively large particulates from the supply fluid.

10. The vehicle transmission as set forth in claim 7, wherein the common housing component is a bottom.

11. The vehicle transmission as set forth in claim 7, wherein the common  
5 housing component is a top.

12. The vehicle transmission as set forth in claim 7, wherein the common housing component is a side wall.